

Product datasheet for **RC238730**

EYA3 (NM_001282561) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EYA3 (NM_001282561) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	EYA3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RC238730 representing NM_001282561
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGAAGAAGAGCAAGATTTACCAGAGCAACCAGTGAAAAAGCCAAGATGCAGGAATCAGGAGAGCAAA
 CTATAAGTCAAGTAAGCAATCCAGATGTAGTGCAGAACCTGAAACATCAAGCCTTGCTTCAAACCT
 TCCCATGTGAGAGGAAATATGACATGCACCGATTACATCCCTCGCTCATCCAATGATTATACCTCACAA
 ATGTATTCTGCAAAACCTTATGCACATATTCTCTCAGTTCCTGTTTCGGAAACTGCTTACCCTGGACAGA
 CTCAATACCAGACTACAGCAGACTCAACCCTATGCTGTCTACCCTCAGGCAACCCAAACGTATGGACT
 ACCTCCTTTTGTCAAGCACAATGCCAGCCTGATATCTACTTCTTCTACAATTGCCAATATTCCAGCA
 GCAGCAGTAGCCAGCATCTAAACCAGGATTATCCCACCTATACTATTCTTGGTTCAGAATCAGTACCAGG
 CCTGCTACCCAGCTCCAGCTTTGGAGTACAGGTCAGACTAACAGTGCAGAGAGCACCACATTAGC
 AGCAACCACATACCAGTCGGAGAAGCCTAGTGTGCATGGCGCTGCACCTGCAGCAGAGACTTTCTCT
 GGAGACCTTCTACAAGTCCATCTTTGTCCCAGACTACACCAAGTAAAGATACTGATGATCAGTCCAGGA
 AAAACATGACTAGCAAGAACCGGGCAAGAGGAAAGCTGATGCCACTTCTCCCAAGACAGTGAATTAGA
 ACGGGTATTTCTGTGGGACTTGGATGAAACCATCATCATCTTCCACTCACTTCTTACTGGATCCTATGCC
 CAGAAATATGAAAGGCCAACAGTAGTATTGGCTCAGGTTTAAACAATGGAAGAAATGATTTTTGAAG
 TGGCTGATACTCATCTATTTTTCAATGACTTAGAGGAGTGTGACCAGGTACATGTGAAGATGTGGCTTC
 TGATGACAATGGCCAAGACTTGAGCAACTACAGTTTCTCAACAGATGGTTTCAGTGGCTCAGGAGGTAGT
 GGCAGCCATGGTTCATCTGTGGTGTTCAGGGAGGTGTGGATGGATGAGGAAACTAGCTTTCCGCTACC
 GGAAAGTGAGAGAAATCTATGATAAGCATAAAAAGCAACGTGGGTGGTCTCCTCAGTCCCCAGGGAAGGA
 AGCACTGCAGAGATTAAGAGCAGAAATTGAAGTTTTAACAGATTCTGGTTAGGAACTGCATTAAGTCC
 TTACTTCTCATCCAGTCCAGAAAGAATTGTGTGAATGTTCTGATCACTACCACCCAGCTGGTTCAGCCC
 TGGCCAAGTTCTCCTATATGGACTAGGAGAAATATTTCTATTGAGAACATCTATAGTGTACCAAAAT
 TGGTAAGGAGAGCTGCTTTGAGAGAATTGTGTCAAGGTTTGGAAAGAAAGTACATATGTAGTATTGGA
 GATGGACGAGATGAAGAAATTGCAGCCAAACAGCACAACATGCCTTTCTGGAGGATCACAAACCATGGAG
 ACCTAGTATCCCTTACCAGGCTTAGAGCTTGATTTTCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238730 representing NM_001282561
 Red=Cloning site Green=Tags(s)

MEEEQDLPEQPVKKAKMQESGEQTIISQVSNPDVSDQKPETSSLASNLPMSSEIMTCTDYIPRSSNDYTSQ
 MYSAPYAHILSVPVSETAYPGQTQYQTLQQTQPYAVYPQATQTYGLPPFASSTNASLISTSSTIANIPA
 AAVASISNQDYPTYTILGQNQYQACYPSSSFVGTGQTNDAESTTLAATTYQSEKPSVMAPAPAAQRLSS
 GDPSTSPSLSQTPSKDQSRKNMTSKNRGKRKADATSSQDSELERVFLWDLDETIIFHSLLTGSYA
 QKYGKDPTVVIGSGLTMEEMIFEVADTHLFFNDLEECDQVHVEDVASDDNGQDL SNYSFSTDFSGSGGS
 GSHGSSVGQGGVDWMRKLAFRYRKYREIYDKHKSNGVGLLSPQRKEALQRLRAEIEVL TDSWLGTALKS
 LLLIQSRKNCVNLITTTQLVPALAKVLLYGLGEIFPIENIYSATKIGKESCFERIVSRFGKKVTVVIG
 DGRDEEIAAKQHNMPFWITNHGDLVSLHQALELDFL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

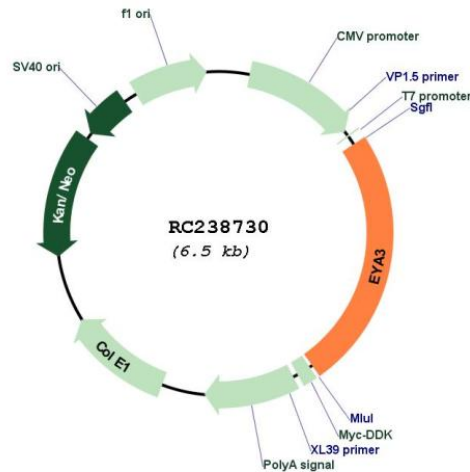
Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_001282561

ORF Size: 1581 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_001282561.1 , NP_001269490.1
RefSeq Size:	5903 bp
RefSeq ORF:	1584 bp
Locus ID:	2140
UniProt ID:	Q99504
Cytogenetics:	1p35.3
Protein Families:	Phosphatase, Transcription Factors
MW:	58.3 kDa
Gene Summary:	<p>This gene encodes a member of the eyes absent (EYA) family of proteins. The encoded protein may act as a transcriptional activator and have a role during development. It can act as a mediator of chemoresistance and cell survival in Ewing sarcoma cells, where this gene is up-regulated via a micro-RNA that binds to the 3' UTR of the transcript. A similar protein in mice acts as a transcriptional activator. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Sep 2013]</p>